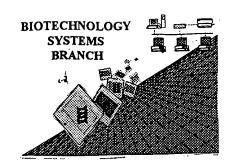
Siem

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/509, 7/2 ASource: 1600 RUSHDate Processed by STIC: 11/7/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

 INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

DATE: 11/07/2001

1600

```
PATENT APPLICATION: US/09/509,712A
                                                                TIME: 13:41:54
                     Input Set : N:\Crf3\09192001\I509712A.raw
                     Output Set: N:\CRF3\11072001\I509712A.raw
       <110> APPLICANT: Rubin, Donald H.
              Organ, Edward L.
      2
              DuBois, Raymond N.
      3
       <120> TITLE OF INVENTION: Mammalian Genes Involved in Viral
              Infection and Tumor Suppression
      6 <130> FILE REFERENCE: 01123.0004
     7 <140> CURRENT APPLICATION NUMBER: US/09/509,712A
                                                                     Does Not Comply
      8 <141> CURRENT FILING DATE: 2001-08-29
                                                                 Corrected Diskette Needed
      9 <150> PRIOR APPLICATION NUMBER: PCT/US98/21276
     10 <151> PRIOR FILING DATE: 1998-10-08
     11 <150> PRIOR APPLICATION NUMBER: 60/062,021
                                                                (global eva)

erseit this

> 22207 mardatory

numeric edentifier

Wherever 22217, 22227,
     12 <151> PRIOR FILING DATE: 1997-10-10
     13 <160> NUMBER OF SEQ ID NOS: 127
     14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 925
     18 <212> TYPE: DNA
     19 <213> ORGANISM: Rattus norvegicus
     20 <221> NAME/KEY: misc feature
     21 <222> LOCATION: 1- 925
     22 <223> OTHER INFORMATION: n = g, a, c or t(u)
     23 <400>:SEQUENCE: 1
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W - - > 24
                                                                                         120
               tanatggggn cgggatentn teenaggana gattnatgga gtatneettt tttgenenaa
 -> 25
                                                                                         180
               ggttgattgc tcttgaaagg ntttgaggtg naattcctcc gtnagtttga ccgtagtcgg
                                                                                         240
               atntgaagag ggattgttna gcagncataa tttcattccc tgnacaccca gtaacnnttt
                                                                                         300
               accetcattt gettegegaat teatntcege agetancaan egccacaett atttattett
               neggaggatt geaceaattn ggeeggetge etetganate tgttteteat ceatgeeggt
                                                                                         360
    30
               tcacccagac gaaagccgaa agcntcggga gtcctaactn tagtccntga aagtcattcc
                                                                                         420
                                                                                         480
     31
               cagctgcgta attgggctgt gcagagtccc agctcggtaa atatttgccc cgtgactgag
               ctggagagaa tgctcctttc ttggtcctgg gcagctcttg gcagctcaca tgcactgttt
                                                                                         540
     32
               acctatecte ceacattece ecetgaggaa teategtgee teggtteeet taagteetet
                                                                                         600
               caacagaaaa caaggcagag tggaacgaag gaaagtgcgt ggccgttaga aagcctgtct
                                                                                         660
     34
               cgaatctgtc ccacgtgcct caggtagcgt tccaaacagc aaagattcta gtgaagaaaa
                                                                                         720
     35
     36
               ataccgtccg gtcaattagt caggtggaca gagcaggacc cggtgtcttg gaagcctcgt
                                                                                         780
                                                                                         840
     37
               ccattcctct ggggaaggtg gggggggcg tgtaatgcag ctctcaagaa gaaggtattt
                                                                                         900
               ttgttttcct ggagaaactg ccatcccagg agctgagagt ggatcagtag gaaggcctgt
                                                                                         925
               gacaggaagc agggaggttc agcng
     41 <210> SEQ ID NO: 2
     42 <211> LENGTH: 554
     43 <212> TYPE: DNA
     44 <213> ORGANISM: Rattus norvegicus
     45 <221> NAME/KEY: misc_feature
     46 <222> LOCATION: 1- 554
     47 < 223 > OTHER INFORMATION: n = q, a, c or t(u)
     48 <400> SEQUENCE: 2
               caagatngan ggggcggcgg ttcgnccaga gagcgggtag ggaagggaac gcgccggatg
                                                                                          60
```

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/509,712A

DATE: 11/07/2001 TIME: 13:41:54

Input Set : N:\Crf3\09192001\1509712A.raw
Output Set: N:\CRF3\11072001\1509712A.raw

```
120
W--> 50
               agcengggtg egganageea gaceeeagge gtgggaaggg gagagata gageggeegg
                                                                                         180
W--> 51
               ttgggaagag gaggaccgtg gttnataaat aacagaaagc ccagagggac gtanccatcc
W--> 52
               qqqatqqaqa qaqqtaggga atccaqntgt aagtcccaaa ctgccaccac cttcatnaga
                                                                                         240
               actgcttcgt gtaaggtcac gcaccgggcc agctgtccng agtggcggtc ctggcgtgtt
                                                                                         300
  - ≯ 53
                                                                                         360
               aagttagcta aagtnactgc aactccgnct gtgcagactg ntcgtaaatt ctctctgtcc
               gccaaattct ccctcctatt aaacttttca cttcctttca cttagtttcc tnacttcttt
                                                                                         420
               caaacggaag ctgtaactga gcctgccacc cnganacntt gtggttgcca tttttatgct
                                                                                         480
    56
                                                                                         540
               aaagtaatcg tgttttttat gcctgtcaac tcccttttca tntaaagcag ggcntaccct
W--> 57
                                                                                         554
     58
               attataactc tgcc
     60 <210> SEQ ID NO: 3
     61 <211> LENGTH: 891
     62 <212> TYPE: DNA
     63 <213> ORGANISM: Rattus norvegicus
     64 <221> NAME/KEY: misc_feature
65 <222> LOCATION: 1- 825 878 (See below)
     66 <223> OTHER INFORMATION: n = g, a, c or t(u)
     67 <400> SEOUENCE: 3
                                                                                          60
W--> 68
               ttngaaanaa tttccgtnaa ggtcngnaat nggccccgga aaaaatgngt tcctccccac
W--> 69
               cttcattggn gcggatcctg ccngggaggc caatggttta acaaataatc tttnggagnt
                                                                                         120
W--> 70
               ntggtngggg ggggagggac ncccacagan tcatgnggtg gttngggngg ngggcatcgt
                                                                                         180
                                                                                         240
W--> 71
               tnngatatta tcacattntg ngaanctatg tnggggcttc ctttcngaca ggtggtggtt
W--> 72
               nnacangngg atgtgtgctt cttttttcag cagtggtgga cccggattct aagaccctta
                                                                                         300
W-->73
               cngtaacaat gccctntttt cctaagccta accagtcctt tangaggant gctcttgggn
                                                                                         360
               acccatgctg nntcacctag ccttggntca catnttnnac acaggaaaag gcagcatgtc
                                                                                         420
W--> 74
               ttntnggage teagettatt ecetteeent eceateeagn ateteeetgg gntggatgag
                                                                                         480
W--> 75
               qtqqatqacq catcttcaaa qcaccccacq tntcatqqqa tqtqcacaqq aqcttcqttq
                                                                                         540
W - - > 76
               gaaatgtgtt gcgcgaccag gcttgtgtag gaaacaacag actactcgaa attaaagtcn
                                                                                         600
W--> 77
W--> 78
                                                                                         660
               taccttgcag ggttctcaga ggcttttacg cattaataaa catttgaatc ntaagaaggg
W--> 79
               agcacagcat qtaatattnt tcaaattatc aggcnttgca accttcatta gtttctctta
                                                                                         7.20
                                                                                         780
W--> 80
               cgcagctggg ngtggtggtg tgtaccttta atctcagcac tgaggaggca cngatatctc
                                                                                         840
W--> 81
               catctctgtg acttccagac cggcntcgcc agagcaagtt ccaggccacc cagatgagat
               geteacagag gggacetttt tntgatgace aacgnaghat geaagtaagg a
SEQ ID NO: 4

LAST N is at Location 878

ENGTH: 974
W--> 82
     84 <210> SEQ ID NO: 4
     85 <211> LENGTH: 974
     86 <212> TYPE: DNA
     87 <213> ORGANISM: Rattus norvegicus
     88 <221> NAME/KEY: misc_feature
     89 <222> LOCATION: 1- 974
     90 <223> OTHER INFORMATION: n = g, a, c or t(u)
     91 <400> SEQUENCE: 4
W--> 92
                                                                                          60
               aaaanaanat attoognnto tnntagonna gaagttntno gagonntooc cogtnttttt
W--> 93
               aaaaacccnc ggattccggn nntcgggntt taanngnttt tttaanggcc cnaagncccn
                                                                                         120
                                                                                         180
W--> 94
               nttattgccg ncntttcccc cccgctnttg cnccccttta cttngagant ngtgntncna
                                                                                         240
   i> 95
               agatttnaag gttnttgece eeeeggettt tntteeeetn ntttteeeen nagntttaaa
               accegetning githernanti nntignance necnating githteegnti accengegith
                                                                                         300
               ttccccatgn ccgttccctc caatnttgna cttcccnggt cngggtccna atnccnngna
                                                                                         360
               acngntenan cettattgac aattaatttt teettgngna ntetgneece engnantttg
                                                                                         420
W--> 99
               gggttcttgg gngcagggcc tttttttcnt tggnngcaan cncataaatn ttaccagntt
                                                                                         480
W--> 100
                gattgctaag gaagtancca tggttgngaa ccccccttn ttntctccca gatggaaccc
                                                                                          540
```

RAW SEQUENCE LISTING DATE: 11/07/2001 PATENT APPLICATION: US/09/509,712A TIME: 13:41:54

Input Set : N:\Crf3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

M> M> M>	102 103 104		aggattttgg a gtgcactgtc o agatggtgac t tccgagcaga a	ettttgcaat gaggctact aagggacaga	atggggtttg tcngcaggac cgtggggcga	cctgcctgct tnggaataat tgaagttgct	ggctcntctc catgtccagg atcgtttntt	ctgctntntc tggctgccct tttttttctg	600 660 720 780
(λ)	105 106		cacagactgc a						840 900
W>			tggagggagg						960
W>			acgnnnctcc	_	0444999000	4090990409			974
		<210>	SEQ ID NO: 5						
	111	<211>	LENGTH: 850						
			TYPE: DNA						
		<213> ORGANISM: Rattus norvegicus C2207							
		<221> NAME/KEY: misc_feature / Colored / Color							
			OTHER INFORMA		a a dor	± (11)			
			SEQUENCE: 5	KIION: II -	g, a, c or	c(u)			
W>		(400)	anttttcct o	caagnaaant	ntaatttaaa	caacttgaag	acgcttnnac	cnaaaaccct	60
W>			tgnggagntt g						120
W>	120		gttaggggga d						180
W>	121		ngcggtttng g	tnnntgaag	ggcgggnggt	tggagtcnna	gtccagagtt	gatttccacc	240
M>	122		cacaaatntg g						300
M>			ggantaacag r						360
M>			cngttcgang g	_					. 420
<u>%</u> t%	/		natgnancht g						480
(m) 6			ntncagatca o	-				_	540 600
\ /	127 128		ngccttnana a						660
M>			atgntcnccg a						720
W>			tgnaatgagt o						780
W>			tcgtatantc r						840
W>			aagtngaana	3 333 3	5 55	3 32	_		850
	134	<210>	SEQ ID NO: 6						
			LENGTH: 531						
			TYPE: DNA						
		<213> ORGANISM: Rattus norvegicus 2215 NAME (KEV: miss feature)							
		<221> NAME/KEY: misc_feature <222> LOCATION: 1- 531							
			OTHER INFORMA		a = a or	+/111			
			SEQUENCE: 6	KIION. II -	g, a, c or	c(u)			
W>		(400)	ttgnggcngg g	tetecteta	natananatn	teceenanag	agaggatete	acagtgtnng	60
W>			ngtctnntgt o			-			120
>	144		ananacatca g		_				180
~ W7->	145		gcccggggng a	nacacaact	ctaaatgtgt	ctcanntgat	${\tt ctctctnttg}$	tgtctctnac	240
W-x	146		atatgnggac a	tgctctcag	${\tt agtatnggnt}$	${\tt ctcttgngcn}$	${\tt cttntgcaca}$	cacacacaca	300
√ \\\>			cacacacaca c					_	360
			tnngagntca r	_				_	420
W>			gcnnatatag g				•		480
M>		/21 <i>0</i> \	cacaggcgct of SEQ ID NO: 7	cnnacccanc	nnnttggggc	ccccaggng	tttttcnccc	C	531
	132	~ZIU>	SEC ID NO: \			•			

DATE: 11/07/2001

TIME: 13:41:54

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,712A

Input Set : N:\Crf3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

```
153 <211> LENGTH: 572
     154 <212> TYPE: DNA
     155 <213> ORGANISM: Rattus norvegicus
     156 <221> NAME/KEY: misc_feature
     157 <222> LOCATION: 1- 572
     158 \langle 223 \rangle OTHER INFORMATION: n = g, a, c or t(u)
     159 <400> SEQUENCE: 7
                                                                                         60
W--> 160
                tttttntgtg gccctttaaa ctctgngtgn ccgtntnccc nagagggggg gtctcacaag
W--> 161
                gagacancgg nnacacagag gttttgngnn tattgngagt ctctgcgcac nccananttt
                                                                                         120
                aaccncgggg nctcntgttt tattttaaaa aaaaagagtc ncatgtntat ttctctnatg
                                                                                         180
W--> 162
                                                                                        240
                tgaaaatcnc attcanagtt ntggggtttc ccntgaggag anatagagtt tcacactctt
W--> 163
                                                                                         300
W--> 164
                ctctccgagg ggtcntcnca tgtntctccc caatgtgngn ggnacacaca tgnggccccn
                agggggtgng ctctctctgc ncagggcncc ccccaanang tagaganaca ntgtggtgtt
                                                                                         360
₩/-> 165
                tcacaacaca attcncgaga nattntgttc cncantggnn gtctnagntc ncatgttgtg
                                                                                         420
    166
  ->
    167
                gngacangtt agnnencece atnttenece ecettteaca etgeceenag agagagaaan
                                                                                         480
 --> 168
                tctnggcccc ctctanannt ntttttaaat cnccccnnac cacaggtntt cccagggtat
                                                                                         540
W--> 169
                gngacntene enneceenen aaagatntge ne
                                                                                         572
     171 <210> SEQ ID NO: 8
     172 <211> LENGTH: 906
     173 <212> TYPE: DNA
     174 <213> ORGANISM: Rattus norvegicus
                                                     <del>-</del>762207
     175 <221> NAME/KEY: misc_feature
     176 <222> LOCATION: 1- 906
     177 <223> OTHER INFORMATION: n = g, a, c or t(u)
     178 <400> SEQUENCE: 8
                                                                                         60
W--> 179
                tgggagtete teteatatgg egenttence aaaggggngt etetnteeng agnegeanae
W--> 180
                gegagaanae tetgtnnant ngteteece enencenaea gngtganant caaaacetet
                                                                                        120
                                                                                        180
W--> 181
                agagecece agaaaneee tnteteaaan aaagagaaag agaaganega gnagnagaga
                gananagaga gagagagtgt gganctntnt cctcngancc ccannnanan ngtgnggcnc
                                                                                         240
W--> 182
W--> 183
                actonomyt gnngngnace conggggatt tnogogtgte coettgnget ctgtntanga
                                                                                         300
W--> 184
                gananatatg tntagtetet etntegecee etcegntgte acgtgtgegg ggeeenngag
                                                                                         360
W--> 185
                acacagacac ntctctcang gggaacacat anngactone acntgtgttt atattonece
                                                                                         420
                ctcccnctca cacanacaca cacacagnag atattnngct actctctctc tgtcacaggg
                                                                                         480
W--> 186
                                                                                         540
                gtacanattt antcinggee anaeceetet engaagngng ggeanngtaa acceegeece
     187
                                                                                        600
  -> 188
                ctctcngaga angngagggc gntttacntt cccngtggcg tgtncgngcc cccgagactc
                cccttngnac cccctntna accctctntt tgaacncaac ncaccntccc cnttttctcg
                                                                                        660
  -> 189
                                                                                        720
W--> 190
                gggnnggncc ngcncccnct ctcncaaaaa aaattnnaan ttngtcccct nccccnttnt
                                                                                        780
                ttcnggnana aaccgtgtcc ggggggggan nactcttttt tgnccttaaa atcaantttt
W--> 191
W--> 192
                ttcccctttt ccnggggacc cccgnnttcc tttttaaaaa aaaanaaccc tttctccctt
                                                                                         840
                ttaaaagnac contttttc naaaaccgtt ccgnatttaa ttcctaaatt cccttccccn
W--> 193
                                                                                        900
W--> 194
                                                                                        906
                ncccqq
     196 <210> SEQ ID NO: 9
     197 <211> LENGTH: 914
     198 <212> TYPE: DNA
     199 <213> ORGANISM: Rattus norvegicus
                                                    ->८२२०७७
     200 <221> NAME/KEY: misc_feature
     201 <222> LOCATION: 1- 914
     202 <223> OTHER INFORMATION: n = g, a, c or t(u)
     203 <400> SEQUENCE: 9
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DATE: 11/07/2001 RAW SEQUENCE LISTING TIME: 13:41:54 PATENT APPLICATION: US/09/509,712A

Input Set : N:\Crf3\09192001\I509712A.raw Output Set: N:\CRF3\11072001\I509712A.raw

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gggatgngcc ctcagatcaa tacacccctc ngggggngtc tctctctatc tcccncagna
                                                                                          60
W--> 204
                gacteceate tetntntntn ecceeagane tggngaaegg ngtgtggnga neentntetg
                                                                                         120
W--> 205
                ttctcnantc tctaaaagng cnaaaagcgc ananacacgn gcctctctat anatctcacg
                                                                                         180
W--> 206
                tgtcccnngn nctctcngac ccctnntctg tntgagagac accctntctc aaaatatagt
                                                                                         240
W--> 207
                                                                                         300
                qtacacgngc tttgnggctc tccccttttc tctccactnt tgagngngaa acgcggngtt
W--> 208
                                                                                         360
                ntctctgaga tgtaganagn gtcccctnct cnatatatgt gttncccact ccnnagggng
W--> 209
                                                                                         420
                totoataaaa atonontnto toaacaccao oncotonaco occonoacga gaacacnton
W--> 210
                                                                                         480
                ccaccnenan gacacaaana naaggngtnn anaaccecan aaaaactnng ntntengntt
    ,211
                                                                                         540
                tacacacaca cacacncacn ctenencaca ececeaenna aatgggagaa aaaacagaga
    (2/12
                ggngtgggtg ttngnntcaa caccntntta cctctctgnt gnnanttgag aaaatatttc
                                                                                         600
     213
                                                                                         660
                tntncttacc cctctcccct ctctgtgtgt ngannatatc ngntctagat gtcctnaccc
  -> 214
                                                                                         720
                tecceaaace tttetenggn agagaentet etntnttttt ecceenette catttgaaan
W--> 215
                                                                                         780
                anangagaag gnccaaaaag gngggngtct tctcgggaat ncnccctttt ggccccccaa
W--> 216
                                                                                         840
                cctgggtttt tttccccctt ccttttaatn antttttcna nacaaanctt tnngngtttn
₩--> 217
                                                                                         900
                qqaaaanqcc tttnnctqnn nnttttttcc cttccccttt tnnangggnt tcccccccc
W--> 218
                                                                                         914
W--> 219
                congaatttt tttt
     221 <210> SEO ID NO: 10
     222 <211> LENGTH: 400
     223 <212> TYPE: DNA
     224 <213> ORGANISM: Rattus norvegicus
     225 <221> NAME/KEY: misc_feature
     226 <222> LOCATION: 1- 400
     227 <223> OTHER INFORMATION: n = g, a, c or t(u)
     228 <400> SEQUENCE: 10
                ttcctgggtg cggtctcctc tgagatagtg tatcccctat agggggggtc tcactttagc
                                                                                          60
     229
                                                                                         120
     230
                acagtttatg aatattatta catatttcac aagactttat attgttataa tatgcctcat
     231
                qtqaqatata tqtgattctg tggtggtgtt ctcagagggg gtttgggtta ttggggataa
                                                                                         180
                tagtttgccc ctcgcggggt ctatatttat atatgtgaca caatatatta gagagatttt
                                                                                         240
     232
                                                                                         300
     233
                tqqttatata tatttccctt cgcgggggtg gagatttatc acagggggag agcttttccc
                ttgttagcaa aagtccctgg tctcgtcccc catctcccaa aaaaaaaaa atgtgaaaaa
                                                                                         360
     234
                                                                                         400
     235
                aaaaaaaaa agggccctc ttgagtgatg tccccttctt
     237 <210> SEQ ID NO: 11
                                                           The types of errors shown exist throughout
     238 <211> LENGTH: 880
                                                           the Sequence Listing. Please check subsequent
     239 <212> TYPE: DNA
                                                           sequences for similar errors.
     240 <213> ORGANISM: Rattus norvegicus
                                               762207
     241 <221> NAME/KEY: misc_feature
     242 <222> LOCATION: 1- 880
     243 <223> OTHER INFORMATION: n = g, a, c or t(u)
     244 <400> SEQUENCE: 11
                acceaatett nanggtggca gtgnggnnga tettaacggt ttttnagaaa aaaaantnet
                                                                                          60
W--> 245
                tcgctcncac ccccaagcct cccnttctta ncagcttttt tatangaaaa aagatgataa
                                                                                         120
W--> 246
                                                                                         180
W--> 247
                cqaaatttta aaaaccgtcg ttagaggaaa tgaaggttca gccgaccatt acctganagt
                aatgaaggtn ttccggaggg ttgccttcca atcccagatg gatttgagtt tcaggatcaa
                                                                                         240
W--> 248
                ttcagttacc gntgaccatc caccnncctc cngtataatc attngatgag gatgaatggt
                                                                                         300
W--> 249
                qaqtqaqtqa tgatqatqat gatqatqatq aagggatgag aagnacacta tgataacaag
                                                                                         360
W--> 250
                tqtctcaqtc cacattaagg tttqcctgna aattagtgca taagccatgg gagacaaatt
                                                                                         420
W--> 251
                ctttcnnac acaattaata gtntcttant ccttcccatc ttctctgccc cattctgttt
                                                                                         480
W--> 252
                tocaccacag gtotgcagog ggotacagot tocagtotoc aagcaaatac cagaactgga
                                                                                         540
     253
     254
                qqaqaaaatt ccaqtccaqt qaqtcatqgq cagggggagg ggtggggtaa gggcagtggc
                                                                                         600
```

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 11/07/2001 PATENT APPLICATION: US/09/509,712A TIME: 13:41:55

Input Set : N:\Crf3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

L:7 M:270 C: Current Application Number differs, Wrong Format

L:24 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:24 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:25 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:25 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:26 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:26 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:27 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:27 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:28 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:29 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:30~M:258~W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:39 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:49~M:258~W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:50 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:51 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:52 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:53 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:54 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:55 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:56 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:57 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:68 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:69 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:70 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:71 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:72 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:73 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:74 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 VERIFICATION SUMMARYDATE: 11/07/2001PATENT APPLICATION: US/09/509,712ATIME: 13:41:55

Input Set : N:\Crf3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:75 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:76 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 $L:76 \ M:341 \ W: (46)$ "n" or "Xaa" used, for SEQ ID#:3 L:77 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:78 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:79 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:80 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:81 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:82 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 $L\!:\!82$ M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:92 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:93 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:94 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:95 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:96 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:97 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:98 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:99 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:100 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:101 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:102 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:103 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:104 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:107 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:108 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:118 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5 L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/509,712A

DATE: 11/07/2001 TIME: 13:41:55

Input Set : N:\Crf3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

L:119 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5

L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

L:120 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5

L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5